

Figure 1

<RelatedUrlTag> ← 40
 <!-- 3 ACTION=PREFETCH ← 42a
 http://www.cdn1.com/HomePgGif1.gif ← 44a
 http://www.cdn1.com/HomePgGif2.gif ← 44b
 http://www.cdn2.com/JpegImage1.jpg ← 44c
 <!-- 2 ACTION=PURGE ← 42b
 http://www.cdn1.com/Old_HomePgGif1.gif ← 44d
 http://www.cdn1.com/Old_HomePgGif2.gif ← 44e
 </RelatedUrlTag> ← 40'

← 36a

Figure 2A

48 50 52
 46a — X-HTTP-RelatedUrl:ACTION=PREFETCH;http://www.cdn1.com/HomePgGif1.gif:80/
 46b — X-HTTP-RelatedUrl:ACTION=PREFETCH;http://www.cdn1.com/HomePgGif2.gif:80/
 46c — X-HTTP-RelatedUrl:ACTION=PREFETCH;http://www.cdn2.com/JpegImage1.jpg:80/
 46d — X-HTTP-RelatedUrl:ACTION=PURGE;http://www.cdn1.com/Old_HomePgGif1.gif:80/
 46e — X-HTTP-RelatedUrl:ACTION=PURGE;http://www.cdn1.com/Old_HomePgGif2.gif:80/

← 36b

Figure 2B

```

<html>
  <head>
    <title>
      CDN Company Homepage
    </title>
  </head>
  <body>
    This is a home page.....
  </body>
</html>

```

← 34

Figure 3A

```

<RelatedUrlTag> ← 40
  <!-- 3 ACTION=PREFETCH
    http://www.cdn1.com/HomePgGif1.gif
    http://www.cdn1.com/HomePgGif2.gif
    http://www.cdn2.com/JpegImage1.jpg -->
  <!-- 2 ACTION=PURGE
    http://www.cdn1.com/Old_HomePgGif1.gif
    http://www.cdn1.com/Old_HomePgGif2.gif -->
  </RelatedUrlTag> ← 40'
<html>
  <head>
    <title>
      CDN Company Homepage
    </title>
  </head>
  <body>
    This is a home page.....
  </body>
</html>

```

← 60

← 36a

← 34

Figure 3B

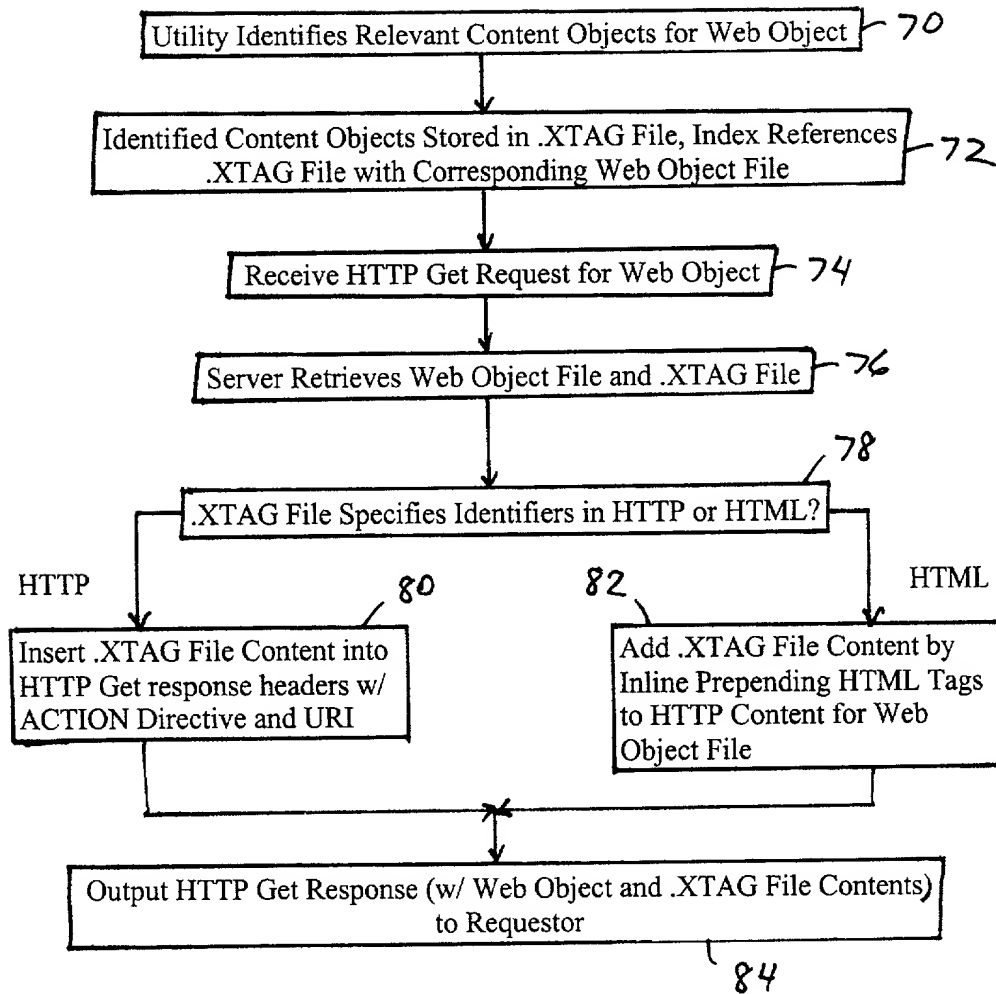


Figure 4A

```
graph TD
    90[Receive HTTP Get Request from Requesting Device] --> 92[Forward HTTP Get Request to Server]
    92 --> 94[Receive HTTP Response]
    94 --> 96[Parse HTTP Response for Content Acceleration]
    96 --> 98[Forward Copy of HTTP Response to Requesting Device]
    98 --> 100{Any HTTP Headers Specifying Content Operations?}
    100 -- Y --> 102[Act on HTTP Header Info. (e.g Prefetch Object based on URI and/or Purge Cached Object specified by URI)]
    100 -- N --> 104{Any HTML Directive Tags Specifying Content Operations?}
    102 --> 104
    104 -- Y --> 106[Act on HTML Tag Info. (e.g., Prefetch Object based on URI and/or Purge Cached Object specified by URI)]
    104 -- N --> End([End])
    106 --> End
```

End